CALFED POTENTIAL ACTION LIST					
	Fisheries	Habitat and	Water Supply	Water Quality	
	and	Land Use/	Availability and	and	
Categories and Actions	Diversions	Flood Protection	Beneficial Uses	Land Use	
Restoration of Bay-Delta System Shallow Water (Tidal) Habitat					
-Convert existing leveed lands to tidal action					
-Protect existing shallow habitat from erosion					
-Restore tidal action to existing diked wetlands	X	X			
-Reconstruct levees to include shallow water habitat	X	X		:	
-Fill deep water to produce shallow habitat	***************************************				
Restoration of Bay-Delta System Riverine Habitat					
-Reconstruct river banks and shallow areas	x	X			
-Restore and preserve channel islands	Î	X			
-Restore natural channel configurations		^			
-Modify channel/levee construction practices to include riverine elements	×	X			
Restoration of Bay-Delta System Riparian Habitat					
-Improve and protect degraded riparian habitats		!			
-Establish new areas of riparian habitat					
-Reestablish historic riparian areas					
-Modify levee maintenance practices					
-Protect existing riparian habitat					
Restoration of Bay-Delta System Wetland Habitat			:		
-Restore, enhance, and create wetlands					
-Expand wetland acquisition programs					
-Convert agricultural lands to wetlands					
-Protect existing wetland habitat					
Restoration of Bay-Delta System Terrestrial Habitat					
-Protect existing upland habitat					
-Establish upland habitat on levees					
-Establish upland habitat on fallowed croplands			•		
-Establish oak woodlands on suitable soils					
-Encourage wildlife-friendly agricultural practices					
-Preserve agricultural land uses providing habitat	1				
-Clean up sites contaminated with toxic substances			-		
Implementation of Integrated Habitat Management Programs					
-Establish regional ecosystem restoration guidelines					
-Implement integrated regional habitat management		1			
-Develop cooperative management agreements					
-Establish mitigation banking program					

	Fisheries	Habitat and	Water Supply	Water Quality
	and.	Land Use/	Availability and	and
Categories and Actions	Diversions	Flood Protection	Beneficial Uses	Land Use
Establishment of Floodways and Meander Belts				
-Relocate levees to widen floodways				
-Allow river channels to meander				
-Acquire Delta islands as overflow areas				
-Restore floodways as habitat corridors				
Control of Introduced Species				
-Remove or reduce nuisance species in key habitats				
-Improve regulation of ballast-water releases				
-Improve border inspection practices				
-Inspect for invasions of nuisance species				
-Modify habitat to favor native species			:	
Delta Waterfowl Habitat Management				
-Manage agricultural crops for waterfowl forage production				
-Improve management of public waterfowl areas				
-Implement terrestrial predator control programs				
-Increase sources and availability of wildlife forage				
Destaurtion of Unetwoom Anadromous Fish Hobitat				
Restoration of Upstream Anadromous Fish Habitat	X		х	
-Manage flows and temperatures in upstream habitats	^		^	
-Restore and replenish spawning gravels -Restore channel configurations			:	
-Restore chainer configurations -Restore shoreline habitat conditions				
-Nestore shoreline habitat conditions -Modify gravel mining practices				
-Improve floodway drainage to reduce fish stranding				
-improve noodway dramage to reduce non-stranding				
Improvements for Upstream Fish Passage				
-Modify passage at upstream dams and other barriers				
-Modify natural barriers to Improve passage				
Restoration of Upstream Riparian Habitat				
-Restrict livestock grazing in riparian corridors				
-Revegetate degraded riparian habitats				
-Protect riparian lands through purchase/easements				
-Restore flows to dewatered riparian habitats				

	Fisheries and	Habitat and Land Use/	Water Supply Availability and	Water Quality and
Categories and Actions	Diversions	Flood Protection	Beneficial Uses	Land Use
Restoration of Upstream Wetland Habitat -Modify floodways to support wetland habitats -Reuse agricultural drainage to create wetlands -Reuse urban wastewater effluent to create wetlands -Manage groundwater recharge for wetland habitat				
Delta Inflow/Outflow/Export Management Actions regarding Delta Inflow -Modify upstream consumptive use -Modify upstream reservoir operations criteria -Modify Delta inflow timing pattern -Provide instream pulse flows for fish passage -Provide instream flows for fish attraction	X X X		X X X	X
Actions regarding Delta Diversions and Outflows -Modify volumes and timing of exports -Modify in-Delta consumptive use -Modify central Delta channel operations -Modify export operations criteria -Establish a Delta watermaster to Manage flows -Use real-time monitoring and adaptive management				
Modification of Diversion Timing Patterns -Modify diversion timing of in-Delta diversions -Modify diversion timing of export diversions -Coordinate SWP/CVP diversion timing -Modify diversion timing through Montezuma Salinity control Gate -Use real-time monitoring and adaptive management				
Increased Rates of Diversion Capacity -Obtain approvals for expanded export capacities -Enlarge export pumping capacities -Increase diversion capability at Red Bluff diversion Dam				
Acquisition of Long-Term Water Supplies for Fish and Wildlife -Acquire water to augment instream flows -Obtain shifts in timing of instream flows -Obtain shifts in diversion timing patterns -Acquire water for refuge habitat use -Modify water law to Establish instream rights	X X	X X	X X	Х

Categories and Actions	Fisheries and Diversions	Habitat and Land Use/ Flood Protection	Water Supply Availability and Beneficial Uses	Water Quality and Land Use
Installation and Improvement of Fish Screens -Improve screens at Delta export pumps -Improve other existing fish screen systems -Install screens on other in-Delta diversions -Install screens on upstream diversions -Consolidate and screen existing small diversions -Enforce screening requirements				
Improvement of Bay-Delta System Fish Migration -Install barriers to block fish movement into Old river -Install barriers to keep fish in Sacramento river -Install barriers to divert fish from Sacramento river to western distributaries -Operate fish barrier on San Joaquin river at Merced river confluence in fall -Provide instream pulse flows for fish passage -Provide instream flows for fish attraction	X			
Improvement of Fish Salvage Operations -Improve design of salvage facilities -Improve operation of salvage facilities -Improve fish hauling and release procedures				
Removal and Control of Aquatic Predators -Harvest predators at Delta export pumps -Harvest predators in upstream habitats				
Fish Hatchery Operations -Expand hatchery capacities -Construct new hatcheries on the San Joaquin river -Improve hatchery operations -Reduce hatchery effects on wild fish populations -Implement tagging of hatchery-bred fish -Establish new captive breeding programs				
Fish Harvest Management -Improve regulation of commercial take -Improve regulation of recreational take -Improve enforcement of Harvest regulations	x			

	Fisheries	Habitat and	Water Supply	Water Quality
Ontaravira and Astions	and	Land Use/	Availability and	and
Categories and Actions	Diversions	Flood Protection	Beneficial Uses	Land Use
Desalination				
-Expand desalination of Southern California supplies				
-Expand desalination of San Joaquin Valley supplies				
-Improve desalination technologies and cost				
-Educate users about desalination feasibility				
Water Conservation				
-Increase use of district-wide conservation practices				
-Increase use of on-farm conservation practices				
-Increase use of municipal conservation practices				
-Increase use of industrial conservation practices				-
-Implement financial incentive policies				
-Implement conservation-oriented rate structures				
-Educate users about conservation technologies				
Water Reclamation				
-Recharge groundwater with reclaimed water -Use reclaimed water for agricultural irrigation				
-Reclaim saline agricultural drainage water				
-Recycle and treat water for potable Reuse				
-Use reclaimed water for nonpotable urban uses				
-Use reclaimed water for landscape irrigation				
-Use reclaimed water for power plant cooling				
-Use reclaimed water for industrial processes				
-Use reclaimed water to repel salinity intrusion				!
-Improve reclamation technologies and cost				
-Educate public about water reclamation				
Land Retirement and Fallowing				
-Encourage land fallowing during drought periods				
-Develop incentive programs for land retirement				
-Purchase lands or easements				
-Retire lands with drainage problems				
Woter Priging				
Water Pricing -Establish incentives for pricing to reduce demand]		
-Establish incentives for pricing to reduce demand -Educate users about pricing feasibility				
-Remove legal obstacles to pricing incentive programs				
-Velling ledar onstances to human incenting hindigning		<u> </u>		

Cotomovice and Actions	Fisheries and Diversions	Habitat and Land Use/ Flood Protection	Water Supply Availability and Beneficial Uses	Water Quality and Land Use
Categories and Actions	Diversions	Plood Protection	Dellelicial Oses	Land USE
Watershed Management				
-Manage vegetation cover to increase yield				
-Manage riparian zones to protect water quality				
-Manage land uses to reduce sedimentation				
-Modify weather to increase precipitation				
 New or Expanded On-stream Storage				
-Construct new storage facilities south (downstream) of the Delta				
-Construct new storage facilities north (upstream) of the Delta			Х	
-Enlarge existing on-stream storage reservoirs				
-Modify operations of existing on-stream reservoirs			X	X
New or Expanded Off-stream Storage				
-Construct new storage facilities south (downstream) of the Delta				
-Construct new storage facilities north (upstream) of the Delta			X	
-Construct new storage facilities in Delta				
-Enlarge existing off-stream storage reservoirs				
-Modify operations of existing off-stream reservoirs			X	Х
Groundwater Banking and Conjunctive Use				
-Establish incentives for conjunctive use				
-Modify water Code to encourage conjunctive use			X	
-Establish conjunctive use programs				
-Store groundwater south (downstream) of the Delta				
-Store groundwater north (upstream) of the Delta			X	
-Implement techniques to increase groundwater recharge				
Improvement of Through-Delta Conveyance				
-Increase capacities of existing east-side channels	j			
-Increase flows from the Sacramento river to the central Delta				
-Modify Delta levees to increase flow cross sections				
-Construct pump/siphon systems between Delta channels				
-Expand existing intakes at the Delta export facilities				
-Construct expanded export intake/forebay pumping system		_		

	Fisheries	Habitat and	Water Supply	Water Quality
Categories and Actions	and Diversions	Land Use/ Flood Protection	Availability and Beneficial Uses	and Land Use
Construction and Improvement of Conveyance Facilities -Construct east-side isolated transfer system -Construct west-side isolated transfer system -Construct small isolated transfer facility -Convert Delta islands to storage/conveyance system -Construct conveyance to off-stream storage -Construct conveyance to groundwater storage				
Changes in Locations of Diversions -Relocate Delta export pumps from key habitats -Relocate other in-Delta diversions for more reliable supplies -Consolidate in-Delta agricultural diversions -Relocate upstream diversions from key habitats -Improve diversion designs when relocating				
Water Transfers -Modify water Code to ease transfers -Improve procedures for transfer permitting -Coordinate diversion and conveyance of transfers				
Long-Term Planning for Drought Contingencies -Increase water storage capacities at user locations -Establish incentives for long-term planning -Conduct Integrated Resources Planning -Establish incentives for long-term conservation -Develop alternate supplies for drought situations				
Water Resources Data and Information Management -Establish a comprehensive water data system -Implement real-time data management system -Integrate data for adaptive management decisions -Establish accessible data management system				
Establishment of Institution for Integrated Long-Term Water Management -Establish long-term guarantees for management -Establish institution to implement guarantees -Coordinate multiagency roles in management -Coordinate groundwater and surface water management -Establish incentives for cooperation/coordination -Establish a public awareness and education program				

	Fisheries	Habitat and	Water Supply	Water Quality
Categories and Actions	and Diversions	Land Use/ Flood Protection	Availability and Beneficial Uses	and Land Use
Categories and Actions	Diversions	Flood Flotection	Delleticial Oses	Land Ose
Establishment of Export Capacity Market				
-Establish procedures for allocation of export capacity				
-Establish institution to allocate export capacity				
-Coordinate water transfers and export capacity				
-Market export capacity for environmental benefits				
Integration of Land Use and Water Supply Planning				
-Coordinate land uses with water supplies				
-Encourage local determination of supplies available				
-Encourage local assessment of water supply reliability				
Installation and Operation of Flow Barriers				
-Install flow barriers to manage south Delta quality				
-Install weirs to control salinity intrusion				
-mstan weng to control gaminty initiasion				
Management of Agricultural Drainage				
-Implement source control regulations for pollutants				
-Implement pollutant-load limits in San Joaquin river				
-Reduce or control volume of agricultural discharges				
-Modify cropping and irrigation practices				
-export agricultural drainage to other watersheds				
-Retire lands with drainage disposal problems				
-Improve pest-control practices				
-Avoid use of high-salinity irrigation water				
-Manage irrigation tailwater to reduce pesticides				
-Manage drainage timing to reduce instream impacts -Treat drainage to remove salt or other pollutants				
-Dilute pollutants in Delta inflows from SJR using stored water				
-Ditute politicants in Delta lilliows from SSR using stored water				
Management of Urban/Industrial Drainage and Wastewater Discharge				
-Retain and manage stormwater runoff				
-Implement urban awareness/education programs				
-Treat discharges to remove problem constituents				
-Construct wetlands to treat wastewater effluent				
-Increase key nutrient inputs to estuary				-
-Enforce wastewater discharge requirements				
-Prevent toxic discharges from industrial plants	<u> </u>			

	Fisheries	Habitat and	Water Supply	Water Quality
	and	Land Use/	Availability and	and
Categories and Actions	Diversions	Flood Protection	Beneficial Uses	Land Use
Drada ad Matarial Managament				
Dredged Material Management				
-Limit dredging to slack tides				
-Limit dredging to avoid fish migration periods -Use techniques to localize sediment movement				
· ·				
-Dispose dredged materials at nonaquatic or other suitable sites -Remove contaminated sediments in critical habitat sites				
-Remove contaminated sediments in childar habitat sites -Ensure material used for levee maintenance is noncontaminated				
-Elisule material used for levee maintenance is noncontaininated				
Management of Abandoned-Mine Drainage				
-Manage discharges from abandoned mines				
-Remediate abandoned mining sites discharging pollutants				
g steed district pointing pointing				
Levee Maintenance and Stabilization				
-Maintain and stabilize existing levees				
-Modify agricultural practices to reduce subsidence				
-Use infilling to correct past subsidence				
-Implement uniform maintenance standards				
-Provide funding for maintenance and stabilization				
Improvement of Flood Protection Levels and Seismic Stabilities				
-Reconstruct levees to higher design standards				
-Reconstruct levees to higher seismic standards				
-Relocate levees to more stable sites				
-Widen floodways to Increase flood conveyance				
-Establish and manage flood overflow areas				
Rerouting and Protection of Infrastructure from Flooding and Seismic Ris	KS			
-Maintain/reconstruct levees around infrastructure			•	
-Reconstruct infrastructure to Increase reliability				
-Relocate/reroute infrastructure				
Establishment of Long-Term Funding Mechanisms			:	
Establishment of Long-Term Funding Mechanisms -Establish a disaster contingency funding program				
-Establish a Bay-Delta financing authority			:	
-Establish a Bay-Delia illiancing authority -Provide low-cost debt financing for local agencies				
-Establish a bond financing mechanism				
-Establish a statewide water utility surcharge				
-Lotabilon a statemate mater utility surollarge				
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